

CLAIMS

What is claimed is:

1. A method for manufacturing a plurality of items in parallel comprising;
5 selecting a sample of manufactured items from a plurality undergoing a process;
subjecting said sample to further processing;
identifying a quality of the selected sample ; and
if said quality is determined to be satisfactory, then subjecting a remainder of said
manufactured items to said further processing.
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2. The method of claim 1 wherein the plurality of the items to be manufactured are chips on
a wafer.
3. The method of claim 2 wherein the chips are comprised of biological material.
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4. The method of claim 3 wherein the biological material is selected from the group
consisting of DNA, RNA, amino acids or analogs thereof.
5. The method of claim 2 wherein said further processing is packaging of the chips.
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6. A method of manufacturing arrays of nucleic acids comprising
fabricating a plurality of duplicate nucleic acid arrays on a substrate;
separating said plurality of arrays;

packaging selected of said arrays;

testing said selected arrays; and

if said selected arrays pass said testing step, packaging a remainder of said plurality of arrays.

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7. The method of claim 6 wherein said arrays are manufactured by light directed synthesis.

8. The method of claim 6 wherein said arrays are manufacture by nucleic acid spotting.

10 9. The method of claim 6 wherein said arrays are made by ink jet synthesis.

10. The method of claim 6 wherein said arrays are separated by sawing.

11. The method of claim 6 wherein said arrays are separated by scribing.

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12. The method of claim 6 wherein said arrays are separated by scribing.

13. The method of claim 1 wherein the plurality of items to be manufactured are substrates for chip synthesis on an array.

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14. The method of claim 13 wherein said further processing is the cleaving and preparation of of substrates.

15. A method of manufacturing arrays of biological materials comprising:
- preparing a plurality of substrates;
- fabricating arrays of biological materials on at least one of said substrates;
- separating said arrays formed on said at least one substrate;
- 5 packaging selected of said separated arrays; and
- testing said packaged arrays.
16. The method of claim 15 further comprising:
- performing a first test on a sample of said substrates after said preparing step and, if said
- 10 sample fails said first test step, discarding said substrates.
17. The method of claim 16 further comprising:
- performing a second test on said at least one of said substrates after said fabricating step
- and, if said at least one of said substrates fails said second test, discarding said at least one of said
- 15 substrates.
18. The method of claim 17 further comprising:
- performing a third test on said arrays after said separating step and, if said arrays fail said
- third test, discarding said arrays.
- 20 19. The method of claim 18 further comprising:
- performing a fifth test on said separated arrays after said packaging step and, if said
- arrays fail said fifth test, discarding said arrays.

20. The method of claim 19 further comprising:
performing a sixth test on said packaged arrays after said testing step and, if said arrays fail said sixth step, discarding said arrays.

5 21. A method of manufacturing arrays of biological materials comprising:
preparing a plurality of substrates;
testing said plurality of substrates;
fabricating arrays of biological materials on at least one of said substrates;
separating said arrays formed on said at least one substrate;
10 packaging selected of said separated arrays;
wherein said fabricating, separating, and packaging steps are performed only when said
substrates pass said testing step.

22. A method of manufacturing arrays of biological materials comprising:
15 preparing a plurality of substrates;
fabricating arrays of biological materials on at least one of said substrates;
testing said fabricated arrays of biological materials;
separating said arrays formed on said at least one substrate;
packaging selected of said separated arrays;
20 wherein said separating and packaging steps are performed only when said fabricated
arrays pass said testing step.

23. A method of manufacturing arrays of biological materials comprising:

preparing a plurality of substrates;

fabricating arrays of biological materials on at least one of said substrates;

separating said arrays formed on said at least one substrate;

testing said separated arrays;

5 packaging selected of said separated arrays;

wherein said packaging step is performed only when said separated arrays pass said testing step.

24. A method of manufacturing arrays of biological materials comprising:

10 preparing surfaces on a plurality of substrates;

depositing xilene on said substrate surfaces;

testing a sample of said substrates; and

discarding said substrates when said sample fails said testing step.

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